



SLOVENSKI STANDARD
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**Preskusi geometričnih lastnosti agregatov - 2. del: Določevanje zrnivosti -
Preskusna sita, velikosti nazivnih odprtin**

Tests for geometrical properties of aggregates - Part 2: Determination of particle size distribution - Test sieves, nominal size of apertures

Prüfverfahren für geometrische Eigenschaften von Gesteinskörnungen - Teil 2:
Bestimmung der Korngrößenverteilung - Analysensiebe, Nennweite der Sieböffnungen

Essais pour déterminer les caractéristiques géométriques des granulats - Partie 2:
Détermination de la granularité - Tamis de contrôle, dimensions nominales des ouvertures

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English Version

**Tests for geometrical properties of aggregates - Part 2:
Determination of particle size distribution - Test sieves,
nominal size of apertures**

Essais pour déterminer les caractéristiques
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Prüfverfahren für geometrische Eigenschaften von
Gesteinskörnungen - Teil 2: Bestimmung der
Korngrößenverteilung - Analysensiebe, Nennweite der
Sieböffnungen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 154.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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[SIST EN 933-2:2020](https://standards.iteh.ai/catalog/standards/sist/8e05b8e4-6524-452a-9da2-89285d99f725/sist-en-933-2-2020)

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European foreword

This document prEN 933-2:2019 has been prepared by the Technical Committee CEN/TC 154 "Aggregates", the secretariat of which is held by BSI.

This document will supersede EN 933-2:1995.

The main technical change compared to EN 933-2:1995 is the addition of Table 1 Applicable test sieves – Nominal size of apertures, in Clause 5.

This document forms part of a series of tests for geometrical properties of aggregates. Test methods for other properties of aggregates are covered by the following European Standards:

- EN 932 (series), *Tests for general properties of aggregates*
- EN 1097 (series), *Tests for mechanical and physical properties of aggregates*
- EN 1367 (series), *Tests for thermal and weathering properties of aggregates*
- EN 1744 (series), *Tests for chemical properties of aggregates*
- EN 13179 (series), *Tests for filler aggregate used in bituminous mixtures*

EN 933 consists of the following parts, under the general title *Tests for geometrical properties of aggregates*:

- *Part 1: Determination of particle size distribution – Sieving method*
- *Part 3: Determination of particle shape – Flakiness index*
- *Part 4: Determination of particle shape – Shape index*
- *Part 5: Determination of percentages of crushed particles and rounded particles of coarse and all-in aggregates*
- *Part 6: Assessment of surface characteristics – Flow coefficient for coarse aggregates*
- *Part 7: Determination of shell content – Percentage of shells in coarse aggregates*
- *Part 8: Assessment of fines – Sand equivalent test*
- *Part 9: Assessment of fines – Methylene blue test*
- *Part 10: Assessment of fines – Grading of fillers (air jet sieving)*
- *Part 11: Classification test for the constituents of coarse recycled aggregates*

prEN 933-2:2019 (E)**1 Scope**

This document specifies the nominal sizes of apertures for test sieves used for determination of particle size of aggregates.

It applies to

- test sieves of perforated metal plate having square holes of size from 4 mm and up to 125 mm;
- test sieves of metal wire cloth having apertures sizes below 4 mm down to 0,063 mm.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3310-1, *Test sieves - Technical requirements and testing- Part 1: Test sieves of metal wire cloth*

ISO 3310-2, *Test sieves - Technical requirements and testing- Part 2: Test sieves of perforated metal plate*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1**metal wire cloth**

cloth of metal wires which cross each other to form square apertures of uniform size

3.2**perforated metal plate**

metal plate with square holes of uniform size in a regular arrangement

Note 1 to entry: Requirements for perforated metal plates with square holes are specified in ISO 3310-2.

4 Requirements for applicable test sieves

Test sieves with aperture size of 4 mm and above shall have a perforated plate with square holes conforming to ISO 3310-2. Test sieves with aperture size below 4 mm shall have a metal wire cloth with apertures conforming to ISO 3310-1.

NOTE Test sieves of metal wire cloth with apertures of 4 mm and above have considerably poorer precision than test sieves of perforated metal plate with the same nominal size of apertures.

5 Nominal size of apertures for applicable test sieves

Nominal size of apertures for applicable test sieves are specified in Table 1. They are taken from the series R 20 in ISO 565:1990.

Table 1 — Applicable test sieves – Nominal size of apertures

Dimensions in millimetres

Series R 20	
Test sieves of perforated metal plate	Test sieves of metal wire cloth
	3,15
125	2,8
112	2,5
100	2,24
90	2
80	1,8
71	1,6
63	1,4
56	1,25
50	1,12
45	1
40	0,90
35,5	0,800
31,5	0,710
28	0,630
25	0,560
22,4	0,500
20	0,450
18	0,400
16	0,355
14	0,315
12,5	0,280
11,2	0,250
10	0,224
9	0,200
8	0,180
7,1	0,160
6,3	0,140
5,6	0,125
5	0,112
4,5	0,100
4	0,090
	0,080
	0,071
	0,063
NOTE 1 Bold figures represent the principal series of sieves	